

CURRICULUM VITAE

LAZAROS OREOPOULOS (aka LAZAROS ORAIOPoulos)

Supervisory Research Physical Scientist; Chief, Climate and Radiation Laboratory

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Research Area Experience:

Atmospheric Radiative Transfer, Cloud and Aerosol Remote Sensing, GCM Cloud and Radiation Parameterizations and Evaluation, Cloud Effects on Climate, Cloud Heterogeneity, Cloud-Aerosol-Precipitation Interactions, Climate Dynamics and Change

Education:

9/92 - 6/96	Ph. D. in Atmospheric and Oceanic Sciences McGill University, Montreal, Canada
9/90 - 8/92	M. Sc. in Meteorology McGill University, Montreal, Canada
9/85 - 11/89	B. Sc. in Physics Aristotle's University of Thessaloniki, Thessaloniki, Greece

Work Experience:

2/13-present	Supervisory Research Physical Scientist NASA GSFC, Climate and Radiation Laboratory, Code 613
12/08-2/13	Research Physical Scientist NASA GSFC, Climate and Radiation Laboratory, Code 613
1/06-12/08	Research Associate Professor JCET & Physics Dept., University of Maryland Baltimore County NASA GSFC, Climate and Radiation Branch, Code 613.2
4/99-12/05	Research Assistant Professor JCET & Physics Dept., University of Maryland Baltimore County NASA GSFC, Climate and Radiation Branch, Code 613.2
10/97-3/99	Assistant Research Scientist JCET, University of Maryland Baltimore County and NASA GSFC, Climate and Radiation Branch, Code 613.2
8/96 - 10/97	Research Scientist Cloud Physics Research Division Meteorological Service of Canada, Downsview, Canada

Teaching Experience:

- Fall 1999, 2001, 2003, 2005, 2006: Instructor, Atmospheric Radiation PHYS 721, UMBC Physics.
- Spring 1993-Fall 1995: Teaching Assistant, Introductory Meteorology, McGill University Dept. of Atmospheric and Oceanic Sciences.

Management, Leadership and Supervisory Experience:

- Chief, Climate and Radiation Lab
- Deputy Project Scientist, Aqua
- Leader, JCET Atmospheric Radiation Focus Group (prior)
- Supervision of research associates: *Tamas Varnai (UMBC/JCET), Michael Wilson (UMBC/GEST), Dongmin Lee (Morgan State), Tianle Yuan (UMBC/JCET), Nayeong Cho (USRA), Deaho Jin (USRA), Jackson Tan (NASA Postdoctoral Program)*

Computer Skills:

- Multi-year experience with Microsoft Office, OS-X and a variety of applications in the OS-X environment, various flavors of Linux environment, various flavors of Windows PC environment.
- Computer languages: Fortran 77/90/95, GrADS, IDL, basic HTML, Unix script language
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Honors Received:

- April 1997: Postdoctoral Visiting Fellowship in a Canadian Government Laboratory by the National Sciences and Engineering Research Council of Canada.
- December 2001: Award for best paper, NASA-GSFC's Climate and Radiation Branch.
- January 2005: Award for scientific leadership, NASA-GSFC's Climate and Radiation Branch.

Professional Associations:

- Member of American Meteorological Society (AMS)
- Member of American Geophysical Union (AGU)

Professional Experience and Activities:

- Aqua Deputy Project Scientist, February 2010-present
- Member of the AMS Committee on Atmospheric Radiation, 2008-2011
- Member of the International Radiation Commission (IRC), 2010-present
- Member of GEWEX's GASS Science Steering Committee 2012-present
- Co-founder of International Intercomparison of 3D Radiation Codes (I3RC)

- Founder and Lead of the Continual Intercomparison of Radiation Codes (CIRC)
- Session Convener and Chair: 3rd I3RC Workshop; 12th AMS Radiation Meeting; AGU Fall 2011 Meeting; AGU Fall 2012 Meeting; AGU Fall 2015 Meeting; AGU Fall 2016 Meeting; IUGG 2015 General Assembly; 2016 Kaufman Memorial Symposium
- Chair of GWEX's GDAP (formerly GRP) and GASS (formerly GCSS) CIRC WG, 2007-present
- Chair of IRC working group on CIRC, 2008-present
- Member of the Landsat Data Continuity Mission (LDCM) Science Team, 2006-2011
- Member of the Atmospheric Radiation Measurements Program Science Team, 2007-2008
- Member of the CloudSat Science Team, 2011-present.
- Invited talks at GSFC's Climate and Radiation Branch, GSFC's Aerocenter, NCAR, SUNY, Univ. of Arizona, NASA Sounder Science Team Meetings, Rutgers University, ISCCP 30th Anniversary Conference, UMBC Physics, UMBC Geography, Univ. of Thessaloniki (Greece), National Academy of Athens (Greece), National Observatory of Athens (Greece), Univ. of Athens Greece.

Professional and Community Service:

- 1/11-1/13 Member of NASA-GSFC's Science Director's Committee (SDC)
- 1/03-10/05 Leader, JCET Atmospheric Radiation Focus Group
- 1/03-5/05 Member, GEST/JCET Advisory Board
- 2000, 2006, 2008 Chair of JCET Promotion Committees
- 7/02-6/04 and 7/09-10/12 Coordinator, NASA-GSFC Code 613 Seminar Series
- 1/02-2/03 Representative of JCET affiliated faculty, UMBC Physics
- 8/93 - 6/96 Treasurer, of Cooperative Housing Unit "Coop Coup d' Pouce" (Montreal)
- 9/91 - 9/92 Student Representative, McGill Post-Graduate Student Society
- 9/91 - 9/93 Secretary, McGill Atmospheric and Oceanic Sciences Student Society

Reviewing Activities:

- US Government and Expert Reviewer for IPCC AR5.
- Referee for JAM, JAS, QJRMS, GRL, JGR-Atmos., JGR-Biogeosc., J. Climate, Physics and Chemistry of the Earth, Atmospheric Research, IEEE TGRS, IEEE GRSL, Journal of Applied Remote Sensing, IGARSS, Atmospheric Measurement Techniques, Atmospheric Chemistry and Physics, Geophysical Model Development, Climate Dynamics, Journal of Advances in Modeling Earth Systems
- Peer reviewer of NASA Fellowships and Funding Programs, DOE Funding Programs, National Science Foundation Funding Programs
- Panelist of NASA, DOE and NOAA proposal evaluation panels

- Peer reviewer for the General Secretariat for Research and Technology programs (Greece)
- External examiner, PhD candidacy of Kurt Fienberg, University of Tasmania, Australia.

Research Funding:

- Principal Investigator, NASA, Science of Terra and Aqua, "Understanding the links between clouds and their environment by employing MODIS cloud regimes in compositing studies", 2014-2016.
- Co-Investigator, NASA-GSFC Science Task Groups, "Planetary climate from Earth to Exoplanets", 2013-2014.
- Co-Investigator, NASA, ACMAP, "Diagnosing uncertainty in the aerosol direct radiative effect with the NASA GEOS-5 model and NASA satellite observations", 2013-2015.
- Co-Investigator, NASA, CloudSat Science Team recompetition, "Investigating the impacts of absorbing aerosols overlying marine boundary layer clouds over the southeast Atlantic Ocean: Aerosol-adjusted cloud optical properties and aerosol direct radiative forcing", 2013-2015.
- Principal Investigator NASA, MAP, "Further enhancement of the cloud prediction capabilities of the GEOS-5 AGCM for radiative and aerosol indirect effect studies", 2012-2016.
- Co-Investigator, NASA, MAP, "Development of an Enhanced Radiation Package for GEOS-5", 2013-2016.
- Co-Investigator, NASA-GSFC Science Task Groups, "Comparative modeling of exoplanetary atmospheres", 2012-2013.
- Co-Investigator, NASA-GSFC Science Innovation Fund (SIF) Program, "Applying Earth and planetary atmosphere models to exoplanets", 2012.
- Co-Investigator, NASA, IDS, "Effects of biomass burning on Asian Monsoon water cycle and climate", 2010-2013.
- Principal Investigator, NASA, CloudSat Science Team recompetition, "Extracting cloud horizontal and vertical variability from CloudSat for the benefit of LSMs", 2010-2013.
- Principal Investigator NASA, MAP, "Microphysical and radiative parameterizations of aerosol-cloud interactions for assessing aerosol-climate connections with NASA GEOS-5 GCM simulations", 2009-2012.
- Co-Investigator, NASA, MAP, "Assimilation of A-Train satellite data for constraining a new PDF-based cloud parameterization in GEOS-5", 2009-2012.
- Principal Investigator, DOE/ARM, "Evaluation of GCM Column Radiation Models under cloudy conditions with the ARM BBHRP Value Added Product", 2007-2008.
- Principal Investigator, USGS/Landsat Program, "Cloud detection and avoidance for the Landsat Data Continuity Mission", 2006-2011.
- Principal Investigator, NASA, GWEC, "Use of new RT schemes and satellite data for more realistic cloud radiative forcing and hydrologic cycle in climate models", 2002-2005.

- Co-Investigator, DOE/ARM, “I3RC (Intercomparison of 3D Radiation Codes) applied to ARM and Landsat retrievals”, 2000-2003.
- Co-Investigator, DOE/ARM, “Advances in 3-dimensional atmospheric radiation: I3RC Toolbox, interactive aerosol retrieval, and cloud inhomogeneity parameterization”, 2003-2006.
- Co-Investigator, NASA Radiation Program, “I3RC Workshops and 3D Community Tools Applied to Assessments and Improvements of Cloud Retrievals from Terra, Aqua, and THOR Offbeam data”, 2003-2006.

Publications:

See also: <http://www.researcherid.com/rid/E-5868-2012> for citation metrics

Peer-Reviewed Publications in Scientific Journals

1. Tan, J., C. Jakob, and L. Oreopoulos, 2016: Why Global Climate Models Cannot Represent Tropical Rainfall, *Geophys. Res. Lett.*, submitted.
2. Leinonen, J. M. D. Lebsack, **L. Oreopoulos**, and N. Cho, 2016: Interregional differences in MODIS-derived cloud regimes. *J. Geophys. Res. Atmos.*, in review.
3. Sullivan, S. C., D. Lee, **L. Oreopoulos**, and A. Nenes, 2016: The role of updraft velocity in temporal variability of global cloud hydrometeor number. *Proc. Natl. Acad. Sci.*, 113:5791–5796. doi: 10.1073/pnas.1514039113.
4. Jin, D., **L. Oreopoulos**, and D. Lee, 2016: Simplified ISCCP Cloud Regimes for Evaluating Cloudiness in CMIP5 Models *Climate Dynamics*, doi: 10.1007/s00382-016-3107-6.
5. Jin, D., **L. Oreopoulos**, and D. Lee, 2016: Regime-based evaluation of cloudiness in CMIP5 models. *Climate Dynamics*, doi: 10.1007/s00382-016-3064-0.
6. Zhang, Z., K. Meyer, H. Yu, S. Platnick, P. Colarco, Z. Liu, and **L. Oreopoulos**, 2016.: Shortwave direct radiative effects of above-cloud aerosols over global oceans derived from 8 years of CALIOP and MODIS observations. *Atmos. Chem. Phys.*, **16**, 2877-2900, doi:10.5194/acp-16-2877-2016.
7. **Oreopoulos, L.**, N. Cho, D. Lee, and S. Kato, 2016: Radiative effects of global MODIS cloud regimes. *J. Geophys. Res. Atmos.*, **121**, doi:[10.1002/2015JD024502](https://doi.org/10.1002/2015JD024502).
8. Mlawer, E. J., M. J. Iacono, R. Pincus, H. W. Barker, **L. Oreopoulos**, and D. L. Mitchell, 2016: Contributions of the ARM Program to Radiative Transfer Modeling for Climate and Weather Applications. In *The Atmospheric Radiation Measurement Program: The First 20 Years*. D.D. Turner, and R.G. Ellingson, Eds. American Meteorological Society, in press.
9. Yuan, T., **L. Oreopoulos**, M. Zelinka, H. Yu, J. Norris, M. Chin, S. Platnick, and K. Meyer, 2016: Positive low cloud and dust feedbacks amplify tropical North Atlantic multidecadal oscillation. *Geophys. Res. Lett.*, **43**, doi:[10.1002/2016GL067679](https://doi.org/10.1002/2016GL067679).

10. Pincus, R., E. J. Mlawer, **L. Oreopoulos**, et al., 2015: Radiative flux and forcing parameterization error in aerosol-free clear skies. *Geophys. Res. Lett.*, **42**, 5485–5492, doi:[10.1002/2015GL064291](https://doi.org/10.1002/2015GL064291).
11. **Oreopoulos**, L., N. Cho, D. Lee, S. Kato, and G. Huffman, 2014: The precipitation and radiative properties of MODIS cloud regimes. *J. Geophys. Res. Atmos.* **119**, 8362–8383, doi:[10.1002/2013JD021409](https://doi.org/10.1002/2013JD021409).
12. Huang, X., X. Chen, G. L. Potter, **L. Oreopoulos**, J.N.S. Cole, D. Lee, and N.G. Loeb, 2014: A global climatology of outgoing longwave spectral cloud radiative effect and associated effective cloud properties. *J. Climate*, **27**, 7475–7492, doi: <http://dx.doi.org/10.1175/JCLI-D-13-00663.1>.
13. Zhang, Z., K. Meyer, S. Platnick, **L. Oreopoulos**, D. Lee, and H. Yu, 2014: A novel method for estimating shortwave direct radiative effect of above-cloud aerosols using CALIOP and MODIS data. *Atmos. Meas. Techn.*, **7**, 1777–1789, doi:10.5194/amt-7-1777-2014.
14. Lee, D., Y. C. Sud, **L. Oreopoulos**, K.-M. Kim, W. K. Lau, and I.-S. Kang, 2014: Modeling the influences of aerosols on Pre-monsoon circulation and rainfall over Southeast Asia. *Atmos. Chem. Phys.*, **14**, 6853–6866, doi:10.5194/acp-14-6853-2014.
15. Yuan, T and **L. Oreopoulos**, 2013: On the global character of overlap between low and high clouds. *Geophys. Res. Lett.*, **40**, 5320–5326, doi:10.1002/grl.50871.
16. Wen, G., R. F. Cahalan, J. D. Haigh, P. Pilewskie, **L. Oreopoulos**, and J. W. Harder, 2013: Reconciliation of modeled climate responses to spectral solar forcing. *J. Geophys. Res. Atmos.*, **118**, 6281–6289, doi:10.1002/jgrd.50506.
17. Yi, B., P. Yang, B. A. Baum, T. L'Ecuyer, **L. Oreopoulos**, E. J. Mlawer, A. J. Heymsfield and K. N. Liou, 2013: Effects of ice particle surface roughness on ice cloud radiative forcing simulations, *J. Atmos. Sci.*, **70**, 2794–2807, doi: <http://dx.doi.org/10.1175/JAS-D-13-020.1>.
18. Meyer, K., S. E. Platnick, **L. Oreopoulos**, and D. Lee, 2013: Estimating the direct radiative forcing of absorbing aerosols overlying marine boundary layer clouds in the southeast Atlantic using MODIS and CALIOP. *J. Geophys. Res. Atmos.*, **118**, 4801–4815, doi:10.1002/jgrd.50449.
19. Randles, C. A., and co-authors, incl., **L. Oreopoulos**,, 2013: Inter-comparison of shortwave radiative transfer schemes in global aerosol modeling: results from the AeroCom Radiative Transfer Code Experiment. *Atmos. Chem. Phys.*, **13**, 2347–2379, doi:10.5194/acp-13-2347-2013.
20. Sud, Y. C., Lee, D., **L. Oreopoulos**, Barahona, D., Nenes, A., and Suarez, M. J., 2013: Performance of McRAS-AC in the GEOS-5 AGCM: aerosol-cloud-microphysics, precipitation, cloud radiative effects, and circulation. *Geosci. Model Dev.*, **6**, 57–79, doi:10.5194/gmd-6-57-2013.
21. Wilson, M., and **L. Oreopoulos**, 2012: Enhancing a Simple MODIS Cloud Mask Algorithm for the Landsat Data Continuity Mission. *IEEE Trans. Geosc. Rem. Sens.*, **51(2)**, 723–730, doi:10.1109/TGRS.2012.2203823.
22. Lee, D., **L. Oreopoulos**, G.J. Huffman, W.B. Rossow, and I.-S. Kang, 2012: The precipitation

- characteristics of ISCCP tropical weather states. *J. Climate*, **26**, 772-788, doi:10.1175/JCLI-D-11-00718.1.
23. Huang, X., Cole, J.N.S., F. He, G.L. Potter, **L. Oreopoulos**, D. Lee, N.G. Loeb, and M. Suarez (2012). Longwave band-by-band cloud radiative effect and its application in GCM evaluation. *J. Climate*, **26**, 450-467, doi: 10.1175/JCLI-D-12-00112.1.
24. Morales-Betancourt, R., Lee, D., **L. Oreopoulos**, Sud, Y. C., Barahona, D., and Nenes, A., 2012: Sensitivity of cirrus and mixed-phase clouds to the ice nuclei spectra in McRAS-AC: single column model simulations. *Atmos. Chem. Phys.*, **12**, 10679-10692, doi:10.5194/acp-12-10679-2012.
25. **Oreopoulos, L.**, Lee, D., Sud, Y. C., and Suarez, M. J., 2012: Radiative impacts of cloud heterogeneity and overlap in an atmospheric General Circulation Model. *Atmos. Chem. Phys.*, **12**, 9097-9111, doi:10.5194/acp-12-9097-2012.
26. Yuan, T., L. A. Remer, H. Bian, J. R. Ziemke, R. Albrecht, K. E. Pickering, **L. Oreopoulos**, S. J. Goodman, H. Yu, and D. J. Allen, 2012: Aerosol indirect effect on tropospheric ozone via lightning. *J. Geophys. Res.*, **117**, D18213, doi:10.1029/2012JD017723.
27. **Oreopoulos, L.**, E.J. Mlawer, J. S. Delamere, T. Shippert, J. Cole, B. Fomin, M.J. Iacono, Z. Jin, J. Li, J. Manners, P. Räisänen, F.G. Rose, Y.-C. Zhang, M.J. Wilson, and W.B. Rossow, 2012: The Continual Intercomparison of Radiation Codes: Results from Phase I. *J. Geophys. Res.*, **117**, D06117, doi:10.1029/2011JD016821.
28. **Oreopoulos L.**, M.J. Wilson, and T. Varnai, 2011: Implementation on Landsat Data of a Simple Cloud Mask Algorithm Developed for MODIS Land Bands. *IEEE Geosc. & Rem. Sens. Lett.*, **99**, 597-601, doi:10.1109/LGRS.2010.2095409.
29. Woodcock, C. E., and co-authors, incl., **L. Oreopoulos**, 2008: Free access to Landsat imagery, *Science*, **320**, p. 1011, doi: 10.1126/science.320.5879.1011a.
30. **Oreopoulos L.**, and W. B. Rossow, 2011: The cloud radiative effects of International Satellite Cloud Climatology Project weather states. *J. Geophys. Res.*, **116**, D12202 doi:10.1029/2010JD015472.
31. **Oreopoulos L.**, and P. M. Norris, 2011: An analysis of cloud overlap at a midlatitude atmospheric observation facility. *Atmos. Chem. Phys.*, **11**, 5557-5567 doi:10.5194/acp-11-5557-2011.
32. **Oreopoulos, L.**, and E. Mlawer, 2010: The Continual Intercomparison of Radiation Codes (CIRC): Assessing anew the quality of GCM radiation algorithms. *Bull. Amer. Meteor. Soc.*, **91**, 305-310.
33. **Oreopoulos, L.**, S. Platnick, G. Hong, P. Yang, and R. F. Cahalan, 2009: The shortwave radiative forcing bias of liquid and ice clouds from MODIS observations. *Atmos. Chem. Phys.*, **9**, 5865-5875.
34. Vasilkov, A. P., J. Joiner, **L. Oreopoulos**, J. F. Gleason, P. Veefkind, E. Bucsela, E. A. Celarier, R. J. D. Spurr, and S. Platnick, 2009: Impact of tropospheric nitrogen dioxide on the regional radiation budget. *Atmos. Chem. Phys.*, **9**, 6389-6400.
35. Joiner, J., M. R. Schoeberl, A. P. Vasilkov, **L. Oreopoulos**, S. Platnick, P. F. Levelt, and N. J.

- Livesey, 2009: Accurate satellite-derived estimates of tropospheric ozone impact on the global radiation budget. *Atmos. Chem. Phys.*, **9**, 4447-4465.
36. Norris, P. M., **L. Oreopoulos**, A. Y. Hou, W. K. Tao, and X. Zeng, 2008: Representation of 3D heterogeneous cloud fields using copulas: Theory for water clouds. *Q. J. R. Meteorol. Soc.*, **134**, 1843-1864.
37. Platnick, S., and **L. Oreopoulos**, 2008: The radiative susceptibility of cloudy atmospheres to droplet number perturbations, Part I: Theoretical analysis and examples from MODIS. *J. Geophys. Res.*, **113**, D14S20, doi:10.1029/2007JD009654.
38. **Oreopoulos, L.**, and S. Platnick, 2008: The radiative susceptibility of cloudy atmospheres to droplet number perturbations, Part II: Global analysis from MODIS. *J. Geophys. Res.*, **113**, D14S21, doi:10.1029/2007JD009655 (*selected as an AGU journal highlight*).
39. Koren, I., **L. Oreopoulos**, L. A. Remer, G. Feingold, and O. Altaratz-Stollar, 2008: How small is a small cloud?, *Atmos. Chem. Phys.*, **8**, 3855-3864.
40. **Oreopoulos, L.**, R. F. Cahalan, and S. Platnick, 2007: The plane-parallel albedo bias of liquid clouds from MODIS observations. *J. Climate*, **20**, 5114-5125.
41. **Oreopoulos, L.**, and R. F. Cahalan, 2005: Cloud inhomogeneity from MODIS. *J. Climate*, **18**, 5110-5124.
42. Cahalan, R. F., **L. Oreopoulos**, and coauthors, 2005: The international Intercomparison of 3D Radiation Codes (I3RC): Bringing together the most advanced radiative transfer tools for cloudy atmospheres. *Bull. Amer. Meteor. Soc.*, **86**, 1275-1293.
43. **Oreopoulos, L.**, 2005: The impact of subsampling on MODIS Level-3 statistics of optical thickness and effective radius. *IEEE Trans. Geosc. Rem. Sens.*, **43**, 366-373.
44. **Oreopoulos, L.**, M.-D. Chou, M. Khairoutdinov, H. W. Barker, and R. F. Cahalan, 2004: Performance of Goddard Earth Observing System GCM Column Radiation Models under heterogeneous cloud conditions. *Atmos. Res.*, **72**, 365-382.
45. **Oreopoulos, L.** and M. Khairoutdinov, 2003: Overlap properties of clouds generated by a Cloud Resolving Model. *J. Geophys. Res.*, **108**, 4479, doi:10.1029/2002JD003329.
46. **Oreopoulos, L.**, A. Marshak, and R. F. Cahalan, 2003: Consistency of ARESE II cloud absorption estimates and sampling issues. *J. Geophys. Res.*, **108**, 4029, doi:10.1029/2002JD002243.
47. Wen, G. S.-C. Tsay, R. F. Cahalan, and **L. Oreopoulos**, 2001: Impact of cumulus cloud spacing on Landsat Atmospheric correction and aerosol retrieval. *J. Geophys. Res.*, **106**, 12129-12138.
48. Cahalan, R. F., **L. Oreopoulos**, G. Wen, S-C. Tsay, A. Marshak, and T. Defelice, 2001: Cloud characterization and clear sky correction from Landsat 7. *Rem. Sens. Env.*, **78**, 83-98.
49. **Oreopoulos, L.**, R. F. Cahalan, A. Marshak, and G. Wen, 2000: A new normalized cloud retrieval technique applied to Landsat radiances over the Oklahoma ARM site. *J. Appl. Met.*, **39**, 2305-2321.

50. **Oreopoulos, L.**, A. Marshak, R. F. Cahalan, and G. Wen, 2000: Cloud 3D effects evidenced in Landsat spatial power spectra and autocorrelation functions. *J. Geophys. Res.*, **105**, 14777-14788.
51. Wen, G. S.-C. Tsay, R. F. Cahalan, and **L. Oreopoulos**, 1999: Path radiance technique for retrieving aerosol optical thickness over land. *J. Geophys. Res.*, **104**, 31321-31332.
52. Marshak, A., **L. Oreopoulos**, A. Davis, W. J. Wiscombe, and R. F. Cahalan 1999: Horizontal radiative fluxes in clouds and accuracy of the independent pixel approximation at absorbing wavelenghts. *Geophys. Res. Lett.*, **26**, 1585-1588.
53. Marshak, A., W. J. Wiscombe, A. Davis, **L. Oreopoulos**, and R. F. Cahalan, 1999: On the removal of the effect of horizontal fluxes in two-aircraft measurements of cloud absorption. *Q. J. Roy. Met. Soc.* **125**, 2153-2170.
54. **Oreopoulos, L.**, and H. W. Barker, 1999: Accounting for subgrid-scale cloud variability in a multi-layer 1d solar radiative algorithm. *Q. J. Roy. Met. Soc.* **126**, 301-330.
55. **Oreopoulos, L.**, and R. Davies, 1998b: Plane parallel albedo biases from satellite observations. Part II: Parameterizations for bias removal. *J. Climate*, **11**, 933-944.
56. **Oreopoulos, L.**, and R. Davies, 1998a: Plane parallel albedo biases from satellite observations. Part I: Dependence on resolution and other factors. *J. Climate*, **11**, 919-932.
57. **Oreopoulos, L.** and R. Davies, 1993: Statistical dependence of albedo and cloud cover on sea surface temperature for two tropical marine stratocumulus regions. *J. Climate*, **6**, 2434-2447.

Miscellaneous works

1. **Oreopoulos, L.**, and E. Mlawer, 2009: CIRC to provide key intercomparisons of GCM RT codes prior to next IPCC assessment. *Feb. 2009 GEWEX Newsletter*.
2. **Oreopoulos, L.**, A. Marshak, R. F. Cahalan, T. Varnai, A. B. Davis, and A. Macke, 2006: New directions in the radiative transfer of cloudy atmospheres. *EOS*, **87**(5), 31 January 2006.
3. **Oreopoulos, L.**, and S. Platnick 2000: Review of “Radiative Transfer in the Atmosphere and Ocean” by G. Thomas and K. Stamnes, Cambridge. *Physics Today*, **Nov. 2000**, p.57.
4. **Oreopoulos, L.**, 1996: Plane parallel albedo bias from satellite measurements. C²GCR Report, 96-10, McGill University, 144 pp (PhD thesis).
5. **Oreopoulos, L.**, 1992: Tropical marine stratocumulus and its relation to sea surface temperature. M. Sc. Thesis, McGill University, 112 pp.